

## German Patent and Trademark Office

Reference Number: 102 30 051.8

### Search Report

#### A. Classification of the application after the international International Patent Classification (IPC)

IPC 07

B42C 5/04

#### B. Investigated areas

Class/Group

B42C 5/04

B42C 5/00      B42C 5/04

#### C: Search Results

Category	Determined Documents	Explanations	Concerning Claim
A	DE 27 19 402 C2		
D,X	DE 19 29 901 C3	Fig.1, col.2, l.24 to col. 3, l.18	1,10
D,Y	DE 100 22 836 A1	Fig.1, col.2-3	1,9
D,X	CH 3 03 678	Fig.1,col.1, l.42 et seq.	1
D,Y	07 99 718 B1	Fig.1,col.2-3	6,9

Column: Category

It means:

X: Document that alone places in question the presence of novelty, an inventive activity (§ 43 PatG) and/or an inventive step (§ 7 GebrMG)

Y: Document that together with other documents places in question the presence of inventive activity (§ 43 PatG) and/or an inventive step (§ 7 GebrMG)

A: Generally to the state of the art, technological background

D: Documents, which are cited already in the patent application (with searches after § 43) and/or documents cited in the application or the utility model (with searches after § 7 GebrMG).

Derwent International Patent Family File  
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PREPARATION OF SIGNATURE FOR BINDING - BY CUTTING EDGES USING ROTATING BLADES AND REMOVING  
FRAGMENTS BY ELECTROSTATIC CHARGE

Patent Assignee: SULBY ENG DEV CO (SULBN)  
Inventor: FRENCH L J B  
Priority Application(No Type Date): 69 **DE-1929901** A 19690612  
No. of Countries: 1  
No. of Patents: 1

PATENT FAMILY  
Patent Number: DE **1929901** B 19800717  
Application Number:  
Language:  
Page(s):  
Main IPC:  
Week: 198030 B

Abstract: DE **1929901** B  
Signatures are carried by a conveyor, with the spine edge downwards, over a centrifugal fan. The fan rotor carries a disc with teeth fixed to its periphery which cut the edges of the pages.  
At the same time an electro-static charge is maintained on the fan rotor so that the fragments of paper are removed and then drawn away by suction through the fan and discharged through the outlet. This roughening of the spine edges provides a better surface to receive the adhesive applied by a pair of rollers.

Title Terms: PREPARATION; SIGNATURE; BIND; CUT; EDGE; ROTATING; BLADE; REMOVE; FRAGMENT;  
ELECTROSTATIC; CHARGE

Derwent Accession Number: 1980-G3742C  
Related Accession Number:  
Derwent Class: P76; S06  
IPC (additional): B42C-005/04

END OF DOCUMENT

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ROTARY DRIVEN TOOL-HEADS FOR PREPARING INNER BOOK SPINES HAS SCREW CONNECTION, DETENT,  
DETACHABLE FASTENINGS AND INNER AND OUTER TOOL-RINGS

Patent Assignee: KOLBUS GMBH & CO KG (KOLBN)  
Inventor: ZAHN T  
Priority Application(No Type Date): 2000 DE-1022836 A 20000510  
No. of Countries: 1  
No. of Patents: 1

PATENT FAMILY

Patent Number: DE **10022836** A1 20011115  
Application Number: 2000 DE-1022836 A 20000510  
Language:  
Page(s): 4  
Main IPC: B42C-005/04  
Week: 200175 B

Abstract: DE **10022836** A

NOVELTY - A rotary driven implement head (1) is encircled by outer tools (2) for treating the inner book spine. Inside the outer tools are tools (4) for subsequently treating such as notching or roughening the inner book spine. The second tool-head holding the tools (6) for subsequent treatment fits by means of a screw connection (7) into the tool-head with the outer tools. The second tool-head is continuously adjustable in height in an axial direction by means of a detent (8), and is fixed to the first tool-head by detachable fastenings (13-17).

USE - Appliance for preparing the spins of inner book and brochure blocks for applying adhesive to their spines.

ADVANTAGE - The height adjustment is easily manipulated between the various processes such as notching, roughening or brushing.

DESCRIPTION OF DRAWING(S) - The drawing shows a side view of a section through a tool-head.

Tool-heads 1,4

Outer tools 2

After-treatment tools 6

Screw connection 7

Detent 8

Fastenings. 13-17

Title Terms: ROTATING; DRIVE; TOOL; HEAD; PREPARATION; INNER; BOOK; SPINE; SCREW; CONNECT; DETENT;  
DETACH; FASTEN; INNER; OUTER; TOOL; RING

Derwent Accession Number: 2001-649409

Related Accession Number:

Derwent Class: P76

IPC (main):B42C-005/04

Dwg.1/ngs.

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DEVICE FOR ROUGHENING BOOK BLOCK SPINE - HAS MACHINING EDGES ROTATING IN CUTTING PLANE AND  
ARRANGED ON FACE SIDE OF PERIPHERY OF ROUGHENING TOOL, MACHINING EDGES AND MACHINING PLANE ON  
BOOK BLOCK SPINE FORMING FLAT ADJUSTMENT ANGLE

Patent Assignee: GRAPHA-HOLDING AG (GRAPN)  
Inventor: DEBRUNNER J; GEISER P  
Priority Application(No Type Date): 96 CH-879 A 19960404  
No. of Countries: 8  
No. of Patents: 5

PATENT FAMILY

Patent Number: EP **799718** A1 19971008  
Application Number: 97 EP-810184 A 19970327  
Language: German  
Page(s): 5  
Main IPC: B42C-005/04  
Week: 199745 B

Patent Number: JP 10016432 A 19980120  
Application Number: 97 JP-73850 A 19970326  
Language:  
Page(s): 3  
Main IPC: B42C-005/04  
Week: 199813

Patent Number: EP **799718** B1 20000531  
Application Number: 97 EP-810184 A 19970327  
Language: German  
Page(s):  
Designated States: (Regional): CH DE FR GB IT LI  
Main IPC: B42C-005/04  
Week: 200031

Patent Number: US 6077016 A 20000620  
Application Number: 97 US-823544 A 19970325  
Language:  
Page(s):  
Main IPC: B42C-013/00  
Week: 200035

Patent Number: DE 59701797 G 20000706  
Application Number: 97 DE-501797 A 19970327; 97 EP-810184 A 19970327  
Language:  
Page(s):  
Filing Notes: Based on EP **799718**  
Main IPC: B42C-005/04  
Week: 200037

Abstract: US 6077016 A

A roughening tool (4) rotates around a rotary axis, which has machining surfaces penetrating the book block spine. The machining edges (9) rotate in a cutting plane and are arranged on the face side of the periphery of the roughening tool (4).

The machining edges and the machining plane on the book block spine form a flat adjustment angle (  $\alpha$  ). The

markings opposite each other, produced by the roughening tool extending laterally over the book block spine, have different machining depths. The un-roughened spine section and the rotary axis of the roughening tool form an angle of more than 90 degrees.

ADVANTAGE - The surface of the book block spine to be bound with adhesive is optimised.

Title Terms: DEVICE; ROUGH; BOOK; BLOCK; SPINE; MACHINING; EDGE; ROTATING; CUT; PLANE; ARRANGE; FACE; SIDE; PERIPHERAL; ROUGH; TOOL; MACHINING; EDGE; MACHINING; PLANE; BOOK; BLOCK; SPINE; FORMING; FLAT; ADJUST; ANGLE

Derwent Accession Number: 1997-482559

Related Accession Number:

Derwent Class: P76

IPC (main):B42C-005/04; B42C-013/00

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BOOK BINDING USING ADHESIVE PROCESS - HAS COLLATED BOOK SECTIONS GUIDED ACROSS CUTTING TOOLS  
PRODUCING CUTS FOR FILLING BY ADHESIVE

Patent Assignee: KOLBUS GMBH (KOLBN); RAHDENER MASCH (RAHDN)  
Inventor: RATHERT H  
Priority Application(No Type Date): 77 **DE-2719402** A 19770430  
No. of Countries: 2  
No. of Patents: 3

PATENT FAMILY  
Patent Number: **DE 2719402** A 19781102  
Application Number:  
Language:  
Page(s):  
Main IPC:  
Week: 197845 B

Patent Number: CH 629425 A 19820430  
Application Number:  
Language:  
Page(s):  
Main IPC:  
Week: 198219

Patent Number: **DE 2719402** C 19870730  
Application Number:  
Language:  
Page(s):  
Main IPC:  
Week: 198730

**Abstract: DE 2719402 A**

The book sections collated and held by conveyor clamps are led over cutting tools to remove the spines and are then combined by adhesive application into a book block. The book block spine is torn off by successive cuts. This is directed transverse to the longitudinal direction of the block movement controlled by a pre-set division and in a tooth shape forming both a flat and a steep flank of the tooth. An adhesive is applied which fills up the gaps between the teeth.

The cut producing the steep flank immediately precedes that producing the flat flank.

Title Terms: BOOK; BIND; ADHESIVE; PROCESS; COLLATE; BOOK; SECTION; GUIDE; CUT; TOOL; PRODUCE; CUT; FILL; ADHESIVE

Derwent Accession Number: 1978-J8668A  
Related Accession Number:  
Derwent Class: P76  
IPC (additional): B42C-005/04; B42C-009/00

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